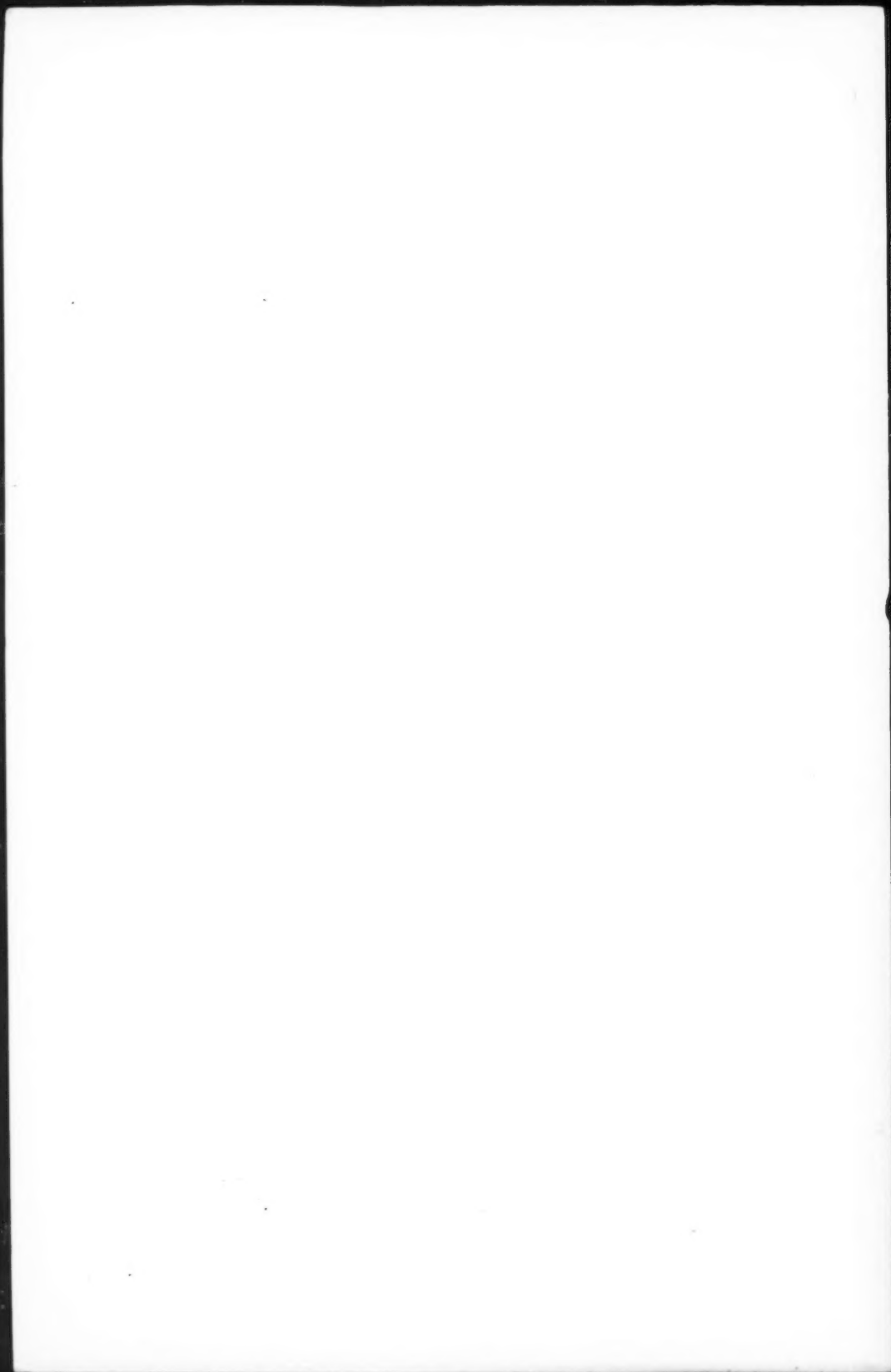


# ASCE

1965

## COMBINED INDEX







1966/1

# ASCE

1965

## COMBINED INDEX



*Journals (Proceedings)  
Civil Engineering  
and  
Transactions*

*March, 1966/\$2.00*



# INDEX TO 1965 ASCE PERIODICAL PUBLICATIONS

## FOREWORD

The 1965 Index, which provides a guide to information published by ASCE during 1965, combines material appearing in the Journals (Proceedings Vol. 91), CIVIL ENGINEERING (Vol. 35), and Transactions (Vol. 130).

The user will find all articles and papers dealing with specific subject areas listed under one or more appropriate subject headings suggested by the content and application of the paper. The Engineers Joint Council "Thesaurus of Engineering Terms" has been used as the primary source of index terms. Additional terms not presently in the Thesaurus have been used when necessary.

The Index can be used in conjunction with the information-retrieval cards printed in the front of each journal. The underlined key words on the information-retrieval abstracts are the words used as index terms in the 1965 Index.

The name index contains entries indexed under the names of authors, co-authors, discussers, chairmen of committees preparing reports, and deceased members, whose memoirs appeared in Transactions.

In the name index, the entry for a Proceedings paper (under the first named if more than one author) is supplemented by information concerning the discussion, closure, and Transactions Digest, if applicable. To find what discussion, if any, there has been for Proceedings papers located in the subject index, the reader looks under the entry for the first-named author in the name index. When discussion of a paper from a prior year is published, the original entry is repeated. Discussion over a period of time can be traced until the closure to the paper is located.

Discussions of CIVIL ENGINEERING items are noted in the subject index as well as in the name index under the discussor's name.

When the paper appears in Transactions, the complete entry including original paper, discussion, closure, and errata, if applicable, and Transactions citation appears in the name index. The subject entry contains a citation to the original paper and the Transactions reference.

Typical abbreviations used herein are:

Dsc for discussion,  
Clo for closing discussion,  
Corr for corrections,  
Chmn for Chairman of a committee submitting a report, and  
TR for Transactions.

Division Abbreviations: Aero-Space Transport (AT), Construction (CO), Engineering Mechanics (EM), Highway (HW), Hydraulics (HY), Irrigation and Drainage (IR), Pipeline (PL), Power (PO), Sanitary Engineering (SA), Soil Mechanics and Foundations (SM), Structural (ST), Surveying and Mapping (SU), Urban Planning and Development (UP), and Waterways and Harbors (WW). Papers sponsored by the Department of Conditions of Practice are identified by the symbols (PP).

The original publication can be found from the index entry as follows: Papers appearing in the Journals (Proceedings) are listed as:

HY1: Jan 65:59:4875

which would indicate a paper published in the Journal of the Hydraulics Division, January, 1965, on page 59, as Proceedings Paper 4875.

The Transactions entry

TR:130:475

indicates that the Digest appears in Transactions, Volume 130, on page 475.

Articles and news items published in CIVIL ENGINEERING are represented as:

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In addition to articles, the following Departments of CIVIL ENGINEERING are indexed: ASCE News, Engineers Notebook, News Briefs, and the Readers Write.

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Comprehensive Planning in the Southeast, George E. Tomlinson, HY3:Sep 65:81:4480

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Effect of Irrigation Method on Water Conservation, Jack Keller, IR2:Jun 65:61:4364

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Hydraulic Performance Comparison of Centrifugal Pumps, Michael J. Suess, HY2:Mar 65:73:4255

Inland Water Transportation in Poland, Fryderick Tomala, WW1:Feb 65:1:4231  
 Irrigation Planning Using Climatological Data, Edward H. Wiser, IR4:Dec 65:1:4551

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A Critique of Engineering Education, Dabney S. Craddock, III, PP2:Sep 65:7:4461

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A Symposium, Continuing Education--Whose Responsibility?, Donald J. Benson, G.E. Rosenkoetter, Lynn W. Gelhar, Charles R. Heidengren, CE:May 65:56

California--City of Hayward starts program to interest students in a civil engineering career, CE:May 65:89

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Educational Considerations for Environmental Engineering, Robert L. Smith, HY1:Jan 65:9: 4191

Education for Sanitary Engineers, E. Sherman Chase, PP2:May 64:15:3894  
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Effect of the Space Age on the Engineering Profession, R.W. Johnson, PP1:Jan 64:1:3747  
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Engineering Education--from the Practitioner's Viewpoint, Joseph S. Ward, CE:Feb 65:58

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Model Balsa-Wood Bridges in Education, Boyd C. Ringo, CE:Feb 64:48  
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Desc: Asit K. Biswas, CE:Jul 65:76

Preliminary report on goals of engineering education available from American Society for Engineering Education, CE:Nov 65:103

Professional Development-The Student's Responsibility, James R. Wright, PP1:Jan 64: 9:3748

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Professional Development, the Younger Viewpoint (Symposium)--In Teaching, Russel C. Jones, CE:Apr 64:56

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Teaching Engineering Attitude to Students, Malcolm S. Gregory, PP1:Jan 65:1:4189

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Where Is Engineering Education Today?--from the Educator's Viewpoint, Gene M.

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Buckling of Steel Columns Under Arbitrary End Loads, Seng-Lip Lee and G.F. Hauck, ST2: Apr 64:179:3872

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Elastic Stability of Radially Nonhomogeneous Rings, S. Russell Keim, EM4:Aug 65:115:4447

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Load-Deformation Behavior of Shells of Revolution, Steven C. Batterman, EM6:Dec 64:1:4167  
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Response of Elastic Cylinders to Plane Shear Waves, Lawrence J. Mente and Francis W. French, EM5:Oct 64:103:4083  
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Stresses in a Layered Half-Plane, K.T. Sundara Raja Iyengar and R.S. Alwar, EM4:Aug 64:79:4004  
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Stresses in a Uniformly Loaded Two-Layer Circular Plate, Martin A. Goldberg, Malcolm Newman, and Marvin J. Forray, EM3:Jun 65:13:4356  
Wave Propagation in Elastic-Plastic Solids, R.L. Bjork and C.Y. Liu, EM5:Oct 65:77:4506

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A Method to Increase the Accuracy of Moire Method, Fu-Pen Chiang, EM1:Feb 65:137:4239

Analog Computer Analysis of Static Beams, Robert E. Sennett, III and John Wait, EM2:Apr 65:47:4303  
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Analytic Methods in Transportation: Left Turn Penalties in Traffic Assignment Models, Joseph A. Wattleworth and Paul W. Shuldiner, EM6:Dec 63:97:3729  
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Analytic Methods in Transportation: Mathematical Car-Following Theory of Traffic Flow, Denos C. Gazis, Robert Herman, and Richard W. Rothery, EM6:Dec 63:29:3724  
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Seismic Analysis of Bridges on Long Piles,

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Slow Viscous Flow of an Incompressible

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Stresses in Hyperboloids under Edge Loadings,

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Vibration of Thin Shells under Initial Stress,

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- Wave Propagation in Elastic-Plastic Solids, R.L. Bjork and C.Y. Liu, EM5:Oct 65:77:4506

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- British Institution of Civil Engineers elects ASCE Member as 100th president, CE:Jan 65:94

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- ASCE members elected to Academy of Engineering, CE:May 65:45
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- Effect of the Space Age on the Engineering Profession, R.W. Johnson, PP1:Jan 64:1:3747  
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- Interdisciplinary Education for Urban Planning, Harold L. Michael, PP1:Jan 64:29:3751  
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- Professional Development-The Student's Responsibility, James R. Wright, PP1:Jan 64:9:3748  
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- Some Ethical Implications of Professional Planning, James M. Abernathy, PP2:May 64:23:3896  
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- Surveyors' Footsteps, W.C. Wattles, SU3:Oct 63:1:3659  
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- Carl Frey elected secretary of EJC, CE:Feb 65:45
- EJC publishes symposium on "Relationships between Engineering Societies and Industry," CE:Jun 65:81
- EJC reports that engineering faculty salaries increase CE:Sep 65:44
- Engineering Manpower Commission of EJC reports salaries, 1962-1964, CE:Feb 65:44
- Engineering Manpower in Profile published by EJC and National Science Foundation, CE:Sep 65:77
- Handbook on selective service issued by EJC, CE:May 65:80
- Presents honorary awards, CE:Mar 65:74

**ENVIRONMENTAL ENGINEERING**

- American Sanitary Engineering Intersociety Board to broaden its activities, CE:Aug 65:89
- ASCE Environmental Engineering Conference and Annual Meeting, Kansas City, Mo., Oct 18-22, Program CE:Aug 65:76, Sep 65:76; Report, Nov 65:56
- See also Cole-Weather Construction Closed Ecological Systems, William J. Oswald, Clarence G. Golueke, and D.O. Horning, SA4:Aug 65:23:4445
- Comprehensive Flood Damage Prevention, John W. Weathers, HY1:Jan 65:17:4193
- Digital Computers and Environmental Control, Gordon P. Fisher and Walter R. Lynn, PP1:Jan 64:15:3749  
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Educational Considerations for Environmental Engineering, Robert L. Smith, HY1:Jan 65:9:4191

Environmental Behavior of Nuclear Debris, Conrad P. Straub, Melvin W. Carter, and Dade W. Moeller, SA6:Dec 64:25:4159  
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Environmental Effects of Flood Plain Regulations, Eugene W. Weber and Walter G. Sutton, HY4:Jul 65:59:4402

How a Waterway Improvement Changed Environment, Robert B. Nichols, WW4:Nov 63:1:3690

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Roadside Planting in California, W.L. Warren, CE:Aug 64:67

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Sanitary Engineering in Alaska, Amos J. Alter, CE:Mar 64:48

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Sewage Lagoons and Man's Environment, Jerome H. Svore, CE:Sep 64:54

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Surveying and Mapping and Environmental Engineering, William T. Pryor, SU2:Jul 64:1:3961

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- Epoxy-Lined Pipe Reduces Cost of San Buenaventura Trunk Sewer, Alvin J. Hotz, Jr., CE:Sep 64:64  
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- Massachusetts--Tunnel under Boston's Prudential Center painted cheaply with epoxy, CE:Sep 65:89
- Photosensitive Plastics Extend the Range of Photoelastic Stress Studies, John P. Cook, CE:Nov 65:87

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- Cellular Concrete Block Revetment, D.A. Parsons and R.P. Apmann, CE:Feb 65:66
- Erosion and Deposition of Cohesive Soils, Emanuel Partheniades, HY1:Jan 65:105:4204
- Sediment Transportation Mechanics: Nature of Sedimentation Problems: Progress Report by the Task Committee on Preparation of Sedimentation Manual, ASCE, Vito A. Vanoni, Chmn, HY2:Mar 65:251:4260
- Sediment Transportation Mechanics: Wind Erosion and Transportation: Progress Report by the Task Committee on Preparation of Sedimentation Manual, ASCE, Vito A. Vanoni, Chmn, HY2:Mar 65:267:4261
- Stabilization of Sand Dunes at Vandenberg Air Force Base, John Peters and Joe Sciandrone, SM4:Jul 64:97:3976  
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- Study of Channel Erosion and Sediment Transport, Carl F. Nordin, Jr., HY4:Jul 64:173:3984  
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- Preliminary report on goals of engineering education available from American Society for Engineering Education. CE:Nov 65:103
- Proceedings of 3rd Conference on Fundamental Research in Plain Concrete in Sept. 1964 are available. CE:Oct 65:99
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- Two books on bridges reviewed. CE:Dec 65:88

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- Control of Obnoxious Aquatic Plants in the Southeast, Otis M. Jernigan, Angelo Tabita, and William E. Wunderlich, WW4:Nov 65:31:4536
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- Film on construction and importance of general contractor released. CE:Nov 65:116

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Hydraulic Design of Pump Intakes, Ralph T. Hattersley, HY2:Mar 65:223:4276

Hydraulic Jump in All Shapes of Horizontal Channels, R. Silvester, HY1:Jan 64:23:3754

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Kinetics of Aerobic Removal of Organic Wastes, K. Keshavan, V. C. Behn, and W. F. Ames, SA1: Feb 64:99:3808

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Michigan Study of Pile Driving Hammers, William S. Housel, SM5:Sep 65:37:4483

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- Pore Air Pressure in Soil Subjected to Shock Waves, Delon Hampton, SM6:Nov 65:41:4541
- Pore Water Pressures in Unsaturated Soils, Roy E. Olsen and Leonard J. Langfelder, SM4:Jul 65:127:4409
- Prediction of Pile Capacity by the Wave Equation, Paul W. Forehand and Joseph L. Reese, Jr., SM2:Mar 64:1:3820  
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- Pressure Cell Observations—Garrison Dam Project, H.A. Sikso and C.V. Johnson, SM5:Sep 64:157:4023  
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- Pressure Testing of Thick Reinforced Concrete Cell, Stanley H. Fistedis, ST2:Apr 64:31:3860  
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- Quality Control in Construction, W.O. Hiltabiddle, Jr., Bradford N. Clark, Charles E. Schaffner, John Nelson Linn, Ralph E. De Simone, Arnold H. Vollmer, Elmer B. Isaak, Leslie D. Long, Richard Q. Praeger, Hal W. Hunt, CO1:May 65:141:4340
- Radial Drainage Oedometer for Laminated Clays, D.H. Shields and P.W. Rowe, SM1:Jan 65:15:4198
- Reinforcement Requirements for Girder Web Openings, Edmund P. Segner, Jr., ST3:Jun 64:147:3919  
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- Sediment Transport in Supercritical Flow, Ralph W. Ansley, HY6:Nov 65:57:4533
- Settlement Analyses, A Review of Theory and Testing Procedures, H. Bolton Seed, SM2:Mar 65:39:4275
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- Shear Strength of an Anisotropically Consolidated Clay, Bengt B. Broms and M.V. Ratnam, SM6:Nov 63:1:3691  
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- Shear Strength of High-Strength Bolts, James J. Wallaert and John W. Fisher, ST3:Jun 65:99:4368
- Shear Stress Pore Pressure in Triaxial Testing, G.E. Blight, SM6:Nov 65:25:4540
- Shock Waves in Granular Soil, Robert D. Stoll and Ibrahim A. Ebeldo, SM4:Jul 65:107:4406

- Some Swelling Characteristics of Compacted Clays, James V. Parcher and Ping-Chuan Lin, SM3:May 65:1:4316
- Stability of Structures with Small Imperfections, John Roorda, EM1:Feb 65:87:4230
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- Stress-Strain Modulus of Clay in Undrained Shear, Charles C. Ladd, SM5:Sep 64:103:4039  
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- Test of a Reinforced Concrete Flat Plate, David S. Hatcher, Mete A. Sozen, and Chester P. Siess, ST5:Oct 65:205:4514
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- The Use of Free Ends in Triaxial Testing of Clays, Laing Barden and J.W. McDermott, SM6:Nov 65:1:4535
- Welded Constructional Alloy Plate Girders, P.B. Cooper, H.S. Lew, and B.T. Yen, SA1:Feb 64:1:3784  
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- Tidal Characteristics of Two Estuaries in Florida, William B. Stelzenmuller, WW3:Aug 65:25:4431
- Waste Disposal in Tidal Waters, Alex N. Diachishin, SA4:Aug 63:23:3602  
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- Yearly Sea Level Variations for the United States, Steacy D. Hicks and William Shofnos, HY5:Sep 65:23:4468



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Deflection of tall guyed tower in Dallas, J.K. Groseclose, CE:Nov 64:68

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 Underground tube urged for high-speed North-east travel CE:Sep 65:86

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 Colombia--Flow Slides Prove Hazardous in Tenche Tunnel and Diversion Tunnel for Miraflores Dam, C.Y. Li, CE:Dec 64:51  
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 Colorado--Reclamation Firsts: Underground Power Plant at Morrow Point Dam, B.P. Bellport, CE:Feb 65:40  
 Europe--Mont Blanc tunnel connects France and Italy, CE:Sep 65:90  
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 Machine Tunneling in Chicago Clays, Robert S. Mayo, CE:Feb 64:60  
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 Scotland--Possible world tunneling record set in Mhoille aqueduct tunnel, CE:Jul 65:88  
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- A Tunnel Favored for English Channel Crossing, John O. Bickel, CE:Jul 64:35  
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 Canada--Bridge-tunnel to connect New Brunswick and Prince Edward Island, CE:Sep 65:90  
 Colorado--Exploratory tunnel driven through Continental Divide, CE:May 65:86  
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- New York--Lincoln Tunnel receives new pavement, CE:Jun 65:93
- Stresses at Tunnel Intersections, William F. Riley, EM2:Apr 64:167:3875
- TR:130:615
- Subway Tunnel Construction in New York City, Gail B. Knight, CO2:Sep 64:15:4032
- TR:130:503
- The Amazing Pennsylvania Canals, W. H. Shank, CE:Jan 65:66
- The Netherlands--Rotterdam's Rapid Transit Tunnel, Ir G. Plantema, CE:Aug 65:34
- Virginia--Chesapeake Bay Bridge-Tunnel project given ASCE's OCEA Award, CE:May 65:44

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- Arkansas--Turbines ordered for Ozark Dam project on Arkansas River, CE:Nov 65:116
- Flow Measurements at Columbia River Power Plants, Nicholas A. Dodge, HY2:Mar 65:125:4263

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- Laminar and Turbulent Flow of Water Through Sand, M. Anandakrishnan and G.H. Varadarajulu, SM5:Sept 63:1:3631
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- Secondary Currents in a Corner, James A. Liggett, Chao-Lin Chiu, and Ling S. Mioa, HY6: Nov 65:99:4538
- Submerged Hydraulic Jump, Nallamuthu Rajaratnam, HY4:Jul 65:71:4403
- Turbulence Measured by Electrokinetic Transducers, Hsing Chuang and Jack E. Cermak, HY6:Nov 65:1:4526
- Turbulent Flow in a Three-Dimensional Channel, Hubert J. Tracy, HY6:Nov 65:9:4530
- Turbulent Non-Newtonian Velocity Profiles in Pipes, Iraj Zandi and Ronald H. Rust, HY6: Nov 65:37:4532
- Wind Driven Water Currents, W. Douglas Baines and Douglas J. Knapp, HY2:Mar 65:205:4270

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- Storage Containers For Liquefied Natural Gas, P.J. Anderson and A.R. Khan, CE:Aug 65:65

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- Colorado--70-ft Underpass of Corrugated Steel Pipe for Broadmoor Hotel, Colorado Springs, Nick Pinello, CE:Nov 65:84

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- Criteria for Planning an Offshore Pipeline, Joe L. Krieg, PL1:Jul 65:15:4407

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- Regulation of the Caspian Sea, Otakar W. Kabelac, WW1:Feb 64:103:3794
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- To Bargain or Not to Bargain, E. Lawrence Chandler, CE:Aug 65:41

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- Officers elected for coming year, CE:Feb 65:72

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- Canada--Toronto Office-Building Complex Breaks Records, John L. Kellermann, CE:May 65:62
- Illinois--First National Bank Building to be built in Chicago Loop, CE:Oct 65:105
- Maryland--Baltimore wins honors for urban renewal, CE:Feb 65:83
- Massachusetts--Boston dedicates Prudential Center, CE:Jun 65:91

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- Airports and Transit Systems--the Engineer's Challenge, J.K. Carr, CE:Apr 65:38
- Dsc: Herbert C. Westfall, CE:Jun 65:72
- ASCE Committee on Land Use plans ASCE publication on urban planning, CE:Jul 65:80
- ASCE Urban Planning and Development Division conference, San Juan, Puerto Rico, Oct. 28-29, Program, CE:Sep 65:70
- Avoiding Utility Interference Underground, Hertz Missimer, CE:Sep 65:36
- California--San Francisco's Golden Gateway development (a symposium): M. Justin Herman, William W. Moore, Stanley E. Teixeira, Don Gillis, CE:Jan 64:31
- TR:130:17
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- Comprehensive Urban Transportation Study Methods, Ralph A. Moyer, HW2:Dec 65:57:4575
- Designing the San Francisco Bay Area Rapid Transit System, William A. Bugge, Leslie Irvin, CE:Oct 64:58
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California--USBR establishes Fresno office for Westlands Water District irrigation-distribution system, CE:Jun 65:95

Montana--Yellowtail Dam to be completed in spring of 1966, CE:Nov 65:112

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A New and Better Foreign Technical Assistance Program, John S. Hale, CE:Jul 65:62

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Cuba--Seawater conversion plant for Guantanamo Naval Base, CE:Apr 65:99

Military Engineering in Vietnam, Peter A. Corradi, CE:Nov 65:47

New Chief of Bureau of Yards and Docks appointed, CE:Oct 65:105

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Canada--Winnipeg Favors Utility Construction in Winter, W.S. Brock, CE:Jul 65:66

Electric utilities plan large construction program in Middle Atlantic states, CE:Apr 65:98

Houston's Jetero Airport: Development of Terminal and Related Areas, Robert O. Grimes, AT1:Apr 63:27:3487

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